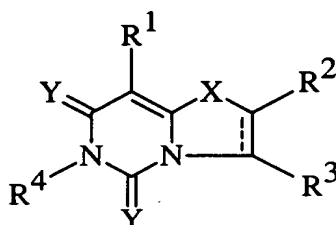


CLAIMS

What is claimed is:

1. A compound of Formula I



5 or a pharmaceutically acceptable salt thereof,  
wherein:

“---” is absent or is a bond;

X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, C = O, CHOH, NH, or NR<sup>5</sup>;

Y is O or S;

10 R<sup>1</sup> is H, (O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub> alkyl, (O)<sub>n</sub> substituted alkyl, NO<sub>2</sub>, NR<sup>5</sup>R<sup>6</sup>, CHO, or  
halo;

R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> independently are hydrogen, halo, C<sub>1</sub>-C<sub>6</sub> alkyl, substituted  
C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, substituted C<sub>2</sub>-C<sub>6</sub> alkenyl,  
C<sub>2</sub>-C<sub>10</sub> alkynyl, substituted C<sub>2</sub>-C<sub>10</sub> alkynyl, (CH<sub>2</sub>)<sub>m</sub> OH,  
15 (CH<sub>2</sub>)<sub>m</sub> OR<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> cycloalkyl, (CH<sub>2</sub>)<sub>m</sub> substituted cycloalkyl,  
CHOH (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
CHOH (CH<sub>2</sub>)<sub>m</sub> heteroaryl, CHOH (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,  
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,  
20 (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted  
carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub>  
substituted heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> NR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub>-S(O)<sub>0</sub>-  
2-(CH<sub>2</sub>)<sub>n</sub>-aryl, CH(C<sub>1</sub>-C<sub>6</sub> alkyl)-aryl, (CH<sub>2</sub>)<sub>m</sub>N(H)C(=O)aryl,

$(\text{CH}_2)_m\text{-S(O)}_{0-2}\text{-(CH}_2)_n\text{-substituted aryl}$ ,  $\text{CH}(\text{C}_1\text{-C}_6 \text{ alkyl})\text{-}$   
substituted aryl,  $(\text{CH}_2)_m\text{N(H)C(=O)}$  substituted aryl,

$\text{C(=O)N(R}^5\text{)-(CH}_2)_m\text{aryl}$ ,  $\text{C(=O)N(R}^5\text{)-(CH}_2)_m$  substituted aryl,

$\text{C(=O)N(R}^5\text{)-(CH}_2)_m$  heteroaryl,  $\text{C(=O)N(R}^5\text{)-(CH}_2)_m$  substituted

5 heteroaryl,  $\text{C}\equiv\text{C-(CH}_2)_m\text{aryl}$ ,  $\text{C}\equiv\text{C-(CH}_2)_m$  substituted aryl,

$\text{C}\equiv\text{C-(CH}_2)_m\text{-heteroaryl}$ ,  $\text{C}\equiv\text{C-(CH}_2)_m$  substituted heteroaryl,

$\text{C}\equiv\text{C-(CH}_2)_m$  carbocycle,  $\text{C}\equiv\text{C-(CH}_2)_m$  substituted carbocycle,  $(\text{CH}_2)_m\text{-}$

O-aryl,  $(\text{CH}_2)_m\text{-O-substituted aryl}$ ,  $(\text{CH}_2)_m \text{COR}^5$ ,  $(\text{CH}_2)_m \text{CONR}^5\text{R}^6$ ,

NH

10

||

$(\text{CH}_2)_m \text{CNR}^5\text{R}^6$ ,

S

||

$(\text{CH}_2)_m \text{CNR}^5\text{R}^6$ , or  $(\text{CH}_2)_m \text{CO}_2\text{R}^5$ ;

15

m is an integer from 0 to 6;

$\text{R}^5$  and  $\text{R}^6$  independently are hydrogen,  $\text{C}_1\text{-C}_6$  alkyl, substituted  $\text{C}_1\text{-C}_6$

alkyl,  $(\text{CH}_2)_m$  aryl,  $(\text{CH}_2)_m$  substituted aryl,  $(\text{CH}_2)_m$  heteroaryl,

or  $(\text{CH}_2)_m$  substituted heteroaryl, or  $\text{R}^5$  and  $\text{R}^6$  are taken together

20

with the nitrogen atom to which they are attached complete a 3- to

7-membered ring containing carbon atoms, the nitrogen atom

bearing  $\text{R}^5$  and  $\text{R}^6$ , and optionally 1 or 2 heteroatoms

independently selected from O, S, and  $\text{NR}^2$ , wherein  $\text{R}^2$  is as

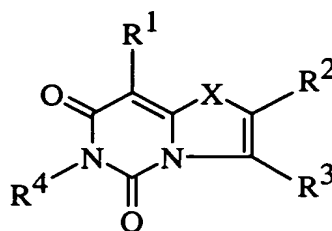
defined above; and

25

n is 0 or 1; with the proviso that  $\text{R}^2$  and  $\text{R}^4$  are not both selected from

hydrogen and  $\text{C}_1\text{-C}_6$  alkyl.

2. A compound of Formula II



II

or a pharmaceutically acceptable salt thereof,

wherein:

X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, C = O, CHOH, NH, or NR<sup>5</sup>;

5 R<sup>1</sup> is H, (O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub> alkyl, (O)<sub>n</sub> substituted C<sub>1</sub>-C<sub>6</sub> alkyl, NO<sub>2</sub>, NR<sup>5</sup>R<sup>6</sup>,  
CHO, or halo;

10 R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> independently are hydrogen, halo, C<sub>1</sub>-C<sub>6</sub> alkyl, substituted  
C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, substituted C<sub>2</sub>-C<sub>6</sub> alkenyl,  
C<sub>2</sub>-C<sub>10</sub> alkynyl, substituted C<sub>2</sub>-C<sub>10</sub> alkynyl, (CH<sub>2</sub>)<sub>m</sub> OH,  
(CH<sub>2</sub>)<sub>m</sub> OR<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> cycloalkyl, (CH<sub>2</sub>)<sub>m</sub> substituted cycloalkyl,  
CHOH (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
CHOH (CH<sub>2</sub>)<sub>m</sub> heteroaryl, CHOH (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,  
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,  
15 (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted  
carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub>  
substituted heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> NR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub>-S(O)<sub>0-2</sub>-  
(CH<sub>2</sub>)<sub>n</sub>-aryl, CH(C<sub>1</sub>-C<sub>6</sub> alkyl)-aryl, (CH<sub>2</sub>)<sub>m</sub>N(H)C(=O)aryl,  
(CH<sub>2</sub>)<sub>m</sub>-S(O)<sub>0-2</sub>-(CH<sub>2</sub>)<sub>n</sub>-substituted aryl, CH(C<sub>1</sub>-C<sub>6</sub> alkyl)-  
20 substituted aryl, (CH<sub>2</sub>)<sub>m</sub>N(H)C(=O) substituted aryl,

C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub>aryl, C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub> substituted aryl,

C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub> heteroaryl, C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub>substituted

heteroaryl, C≡C-(CH<sub>2</sub>)<sub>m</sub>aryl, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted aryl,

C≡C-(CH<sub>2</sub>)<sub>m</sub>-heteroaryl, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,

$C\equiv C-(CH_2)_m$  carbocycle,  $C\equiv C-(CH_2)_m$  substituted carbocycle,  $(CH_2)_m$ -O-aryl,  $(CH_2)_m$ -O-substituted aryl,  $(CH_2)_m$  COR<sup>5</sup>,  $(CH_2)_m$  CONR<sup>5</sup>R<sup>6</sup>,

NH

||

5 (CH<sub>2</sub>)<sub>m</sub> CNR<sup>5</sup>R<sup>6</sup>,

S

||

(CH<sub>2</sub>)<sub>m</sub> CNR<sup>5</sup>R<sup>6</sup>, or (CH<sub>2</sub>)<sub>m</sub> CO<sub>2</sub>R<sup>5</sup>;

m is an integer from 0 to 6;

10 R<sup>5</sup> and R<sup>6</sup> independently are hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, substituted

C<sub>1</sub>-C<sub>6</sub> alkyl, (CH<sub>2</sub>)<sub>m</sub> aryl, (CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CH<sub>2</sub>)<sub>m</sub>

heteroaryl, (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, or R<sup>5</sup> and R<sup>6</sup> are taken

together with the nitrogen atom to which they are attached

complete a 3- to 7-membered ring containing carbon atoms, the

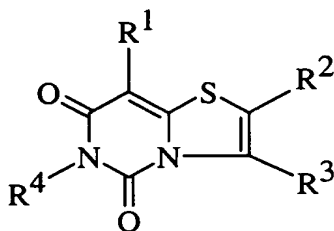
15 nitrogen atom bearing R<sup>5</sup> and R<sup>6</sup>, and optionally 1 or 2

heteroatoms independently selected from O, S, and NR<sup>2</sup>, wherein

R<sup>2</sup> is as defined above; and

n is 0 or 1; with the proviso that R<sup>2</sup> and R<sup>4</sup> are not both selected from hydrogen and C<sub>1</sub>-C<sub>6</sub> alkyl.

20 3. A compound of Formula III



III

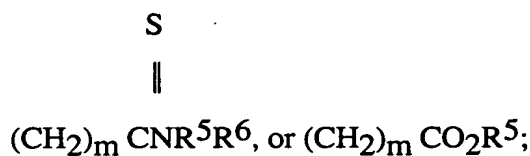
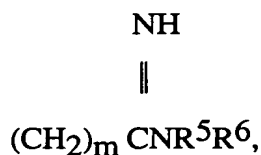
or a pharmaceutically acceptable salt thereof;

wherein:

R<sup>1</sup> is H, (O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub> alkyl, (O)<sub>n</sub> substituted C<sub>1</sub>-C<sub>6</sub> alkyl, NO<sub>2</sub>, NR<sup>5</sup>R<sup>6</sup>,

25 CHO, or halo;

$R^2$ ,  $R^3$ , and  $R^4$  independently are hydrogen, halo,  $C_1$ - $C_6$  alkyl, substituted  
 $C_1$ - $C_6$  alkyl,  $C_2$ - $C_6$  alkenyl, substituted  $C_2$ - $C_6$  alkenyl,  
 $C_2$ - $C_{10}$  alkynyl, substituted  $C_2$ - $C_{10}$  alkynyl,  $(CH_2)_m$  OH,  
 $(CH_2)_m$  OR<sup>5</sup>,  $(CH_2)_m$  cycloalkyl,  $(CH_2)_m$  substituted cycloalkyl,  
5      CHOH  $(CH_2)_m$  aryl, CHOH  $(CH_2)_m$  substituted aryl,  
CHOH  $(CH_2)_m$  heteroaryl, CHOH  $(CH_2)_m$  substituted heteroaryl,  
 $(CO_2)_n(CH_2)_m$  aryl,  $(CO_2)_n(CH_2)_m$  substituted aryl,  
 $(CO_2)_n(CH_2)_m$  heteroaryl,  $(CO_2)_n(CH_2)_m$  substituted heteroaryl,  
10       $(CO_2)_n(CH_2)_m$  carbocycle,  $(CO_2)_n(CH_2)_m$  substituted  
carbocycle,  $(CO_2)_n(CH_2)_m$  heterocycle,  $(CO_2)_n(CH_2)_m$   
substituted heterocycle,  $(CO_2)_n(CH_2)_m$  NR<sup>5</sup>R<sup>6</sup>,  $(CH_2)_m$ -S(O)<sub>0-2</sub>- $(CH_2)_n$ -aryl, CH( $C_1$ - $C_6$  alkyl)-aryl,  $(CH_2)_m$ N(H) C(=O)aryl,  
 $(CH_2)_m$ -S(O)<sub>0-2</sub>-( $CH_2$ )<sub>n</sub>-substituted aryl, CH( $C_1$ - $C_6$  alkyl)-  
substituted aryl,  $(CH_2)_m$ N(H)C(=O) substituted aryl,  
15      C(=O)N(R<sup>5</sup>)-( $CH_2$ )<sub>m</sub>aryl, C(=O)N(R<sup>5</sup>)-( $CH_2$ )<sub>m</sub> substituted aryl,  
C(=O)N(R<sup>5</sup>)-( $CH_2$ )<sub>m</sub> heteroaryl, C(=O)N(R<sup>5</sup>)-( $CH_2$ )<sub>m</sub>substituted  
heteroaryl, C≡C-( $CH_2$ )<sub>m</sub>aryl, C≡C-( $CH_2$ )<sub>m</sub> substituted aryl,  
C≡C-( $CH_2$ )<sub>m</sub>-heteroaryl, C≡C-( $CH_2$ )<sub>m</sub> substituted heteroaryl,  
C≡C-( $CH_2$ )<sub>m</sub> carbocycle, C≡C-( $CH_2$ )<sub>m</sub> substituted carbocycle,  $(CH_2)_m$ -  
20      O-aryl,  $(CH_2)_m$ -O-substituted aryl,  $(CH_2)_m$  COR<sup>5</sup>,  $(CH_2)_m$  CONR<sup>5</sup>R<sup>6</sup>,



m is an integer from 0 to 6;

R<sup>5</sup> and R<sup>6</sup> independently are hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, substituted

C<sub>1</sub>-C<sub>6</sub> alkyl, (CH<sub>2</sub>)<sub>m</sub> aryl, (CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CH<sub>2</sub>)<sub>m</sub>

heteroaryl, (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, or R<sup>5</sup> and R<sup>6</sup> are taken

together with the nitrogen atom to which they are attached

complete a 3- to 7-membered ring containing carbon atoms, the

nitrogen atom bearing R<sup>5</sup> and R<sup>6</sup>, and optionally 1 or 2

heteroatoms independently selected from O, S, and NR<sup>2</sup>, wherein

R<sup>2</sup> is as defined above; and

n is 0 or 1; with the proviso that R<sup>2</sup> and R<sup>4</sup> are not both selected from hydrogen and C<sub>1</sub>-C<sub>6</sub> alkyl.

4. The compound according to Claim 1 of Formula III, or a pharmaceutically acceptable salt thereof, selected from:

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carbothioic acid benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carbothioic acid 4-methoxy-benzylamide.

6-Benzyl-2-(3-phenyl-propionyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid prop-2-ynylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (piperidin-4-ylmethyl)-amide hydrochloride;

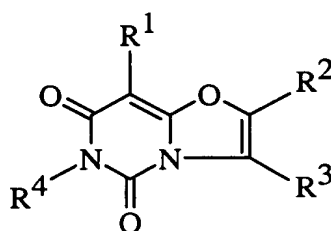
6-Benzyl-2-(1-hydroxy-3-phenyl-allyl)-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-Benzyl-2-(1-hydroxy-3-phenyl-prop-2-ynyl)-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

5 6-Benzyl-2-(hydroxy-phenyl-methyl)-thiazolo[3,2-c]pyrimidine-5,7-dione; and

6-Benzyl-2-(1-hydroxy-3-phenyl-propyl)-thiazolo[3,2-c]pyrimidine-5,7-dione.

5. A compound of Formula IV



IV

or a pharmaceutically acceptable salt thereof,

R<sup>1</sup> is H, (O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub> alkyl, (O)<sub>n</sub> substituted C<sub>1</sub>-C<sub>6</sub> alkyl, NO<sub>2</sub>, NR<sup>5</sup>R<sup>6</sup>, CHO, or halo;

R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> independently are hydrogen, halo, C<sub>1</sub>-C<sub>6</sub> alkyl, substituted C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, substituted C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>10</sub> alkynyl, substituted C<sub>2</sub>-C<sub>10</sub> alkynyl, (CH<sub>2</sub>)<sub>m</sub> OH, (CH<sub>2</sub>)<sub>m</sub> OR<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> cycloalkyl, (CH<sub>2</sub>)<sub>m</sub> substituted cycloalkyl, CHOH (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> substituted aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> heteroaryl, CHOH (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> NR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub>-S(O)<sub>0-2</sub>-(CH<sub>2</sub>)<sub>n</sub>-aryl, CH(C<sub>1</sub>-C<sub>6</sub> alkyl)-aryl, (CH<sub>2</sub>)<sub>m</sub>N(H) C(=O)aryl,

$(\text{CH}_2)_m\text{-S(O)}_{0-2}\text{-(CH}_2)_n\text{-substituted aryl}$ ,  $\text{CH}(\text{C}_1\text{-C}_6\text{ alkyl})\text{-}$   
substituted aryl,  $(\text{CH}_2)_m\text{N(H)C(=O)}$  substituted aryl,

$\text{C(=O)N(R}^5\text{)-(CH}_2)_m\text{aryl}$ ,  $\text{C(=O)N(R}^5\text{)-(CH}_2)_m\text{ substituted aryl}$ ,

$\text{C(=O)N(R}^5\text{)-(CH}_2)_m\text{ heteroaryl}$ ,  $\text{C(=O)N(R}^5\text{)-(CH}_2)_m\text{substituted}$

5  $\text{heteroaryl}$ ,  $\text{C}\equiv\text{C-(CH}_2)_m\text{aryl}$ ,  $\text{C}\equiv\text{C-(CH}_2)_m\text{ substituted aryl}$ ,

$\text{C}\equiv\text{C-(CH}_2)_m\text{-heteroaryl}$ ,  $\text{C}\equiv\text{C-(CH}_2)_m\text{ substituted heteroaryl}$ ,

$\text{C}\equiv\text{C-(CH}_2)_m\text{ carbocycle}$ ,  $\text{C}\equiv\text{C-(CH}_2)_m\text{ substituted carbocycle}$ ,  $(\text{CH}_2)_m\text{-}$

$\text{O-aryl}$ ,  $(\text{CH}_2)_m\text{-O-substituted aryl}$ ,  $(\text{CH}_2)_m\text{ COR}^5$ ,  $(\text{CH}_2)_m\text{ CONR}^5\text{R}^6$ ,

NH

10

||

$(\text{CH}_2)_m\text{ CNR}^5\text{R}^6$ ,

S

||

$(\text{CH}_2)_m\text{ CNR}^5\text{R}^6$ , or  $(\text{CH}_2)_m\text{ CO}_2\text{R}^5$ ;

15

$m$  is an integer from 0 to 6;

$\text{R}^5$  and  $\text{R}^6$  independently are hydrogen,  $\text{C}_1\text{-C}_6\text{ alkyl}$ , substituted

$\text{C}_1\text{-C}_6\text{ alkyl}$ ,  $(\text{CH}_2)_m\text{ aryl}$ ,  $(\text{CH}_2)_m\text{ substituted aryl}$ ,  $(\text{CH}_2)_m$

$\text{heteroaryl}$ ,  $(\text{CH}_2)_m\text{ substituted heteroaryl}$ , or  $\text{R}^5$  and  $\text{R}^6$  are taken

together with the nitrogen atom to which they are attached

20

complete a 3- to 7-membered ring containing carbon atoms, the

nitrogen atom bearing  $\text{R}^5$  and  $\text{R}^6$ , and optionally 1 or 2

heteroatoms independently selected from O, S, and  $\text{NR}^2$ , wherein

$\text{R}^2$  is as defined above; and

$n$  is 0 or 1; with the proviso that  $\text{R}^2$  and  $\text{R}^4$  are not both selected from

25

hydrogen and  $\text{C}_1\text{-C}_6\text{ alkyl}$ .

6. The compound according to Claim 1 of Formula IV, or a pharmaceutically acceptable salt thereof, selected from:



6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid benzyl ester;

6-Benzyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid benzyl ester;

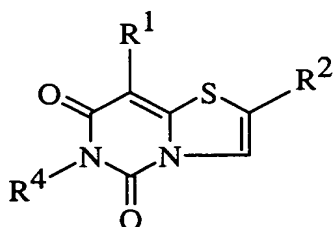
5 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

10 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide; and

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide.

7. A compound of Formula V



V

15 or a pharmaceutically acceptable salt thereof,  
wherein:

R<sup>1</sup> is hydrogen, (O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub> alkyl, or (O)<sub>n</sub> substituted C<sub>1</sub>-C<sub>6</sub> alkyl;

R<sup>2</sup> is (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted aryl;

R<sup>4</sup> is (CH<sub>2</sub>)<sub>m</sub> CO<sub>2</sub>R<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> CONR<sup>5</sup>R<sup>6</sup>, CHOH (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH

20 (CH<sub>2</sub>)<sub>m</sub> substituted aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> heteroaryl, CHOH

(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> aryl,

(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heteroaryl,

(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> carbocycle,

(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub>

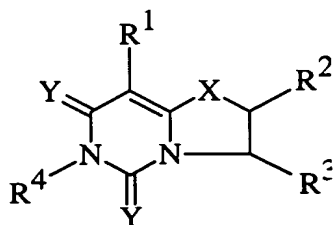
25 heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heterocycle;

$R^5$  and  $R^6$  independently are hydrogen,  $C_1$ - $C_6$  alkyl, substituted  $C_1$ - $C_6$  alkyl,  $(CH_2)_m$  aryl,  $(CH_2)_m$  substituted aryl,  $(CH_2)_m$  heteroaryl,  $(CH_2)_m$  substituted heteroaryl, or  $R^5$  and  $R^6$  are taken together with the nitrogen atom to which they are attached complete a 3- to 7-membered ring containing carbon atoms, the nitrogen atom bearing  $R^5$  and  $R^6$ , and optionally 1 or 2 heteroatoms independently selected from O, S, and  $NR^2$ , wherein  $R^2$  is as defined above;

$m$  is an integer of from 0 to 6;

$n$  is 0 or 1.

8. A compound of Formula VI



VI

or a pharmaceutically acceptable salt thereof,

wherein:

X is O, S, SO,  $SO_2$ ,  $CH_2$ ,  $C=O$ ,  $CHOH$ ,  $NH$ , or  $NR^5$ ;

Y is O or S;

$R^1$  is H,  $(O)_n C_1$ - $C_6$  alkyl,  $(O)_n$  substituted  $C_1$ - $C_6$  alkyl,  $NO_2$ ,  $NR^5 R^6$ ,  $CHO$ , or halo;

$R^2$ ,  $R^3$ , and  $R^4$  independently are hydrogen, halo,  $C_1$ - $C_6$  alkyl, substituted  $C_1$ - $C_6$  alkyl,  $C_2$ - $C_6$  alkenyl, substituted  $C_2$ - $C_6$  alkenyl,  $C_2$ - $C_{10}$  alkynyl, substituted  $C_2$ - $C_{10}$  alkynyl,  $(CH_2)_m OH$ ,  $(CH_2)_m OR^5$ ,  $(CH_2)_m$  cycloalkyl,  $(CH_2)_m$  substituted cycloalkyl,  $CHOH (CH_2)_m$  aryl,  $CHOH (CH_2)_m$  substituted aryl,  $CHOH (CH_2)_m$  heteroaryl,  $CHOH (CH_2)_m$  substituted heteroaryl,  $(CO_2)_n (CH_2)_m$  aryl,  $(CO_2)_n (CH_2)_m$  substituted aryl,

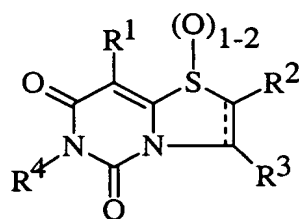
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,  
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted  
carbocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub>  
substituted heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> NR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub>-S(O)<sub>0-2</sub>-(CH<sub>2</sub>)<sub>n</sub>-aryl, CH(C<sub>1</sub>-C<sub>6</sub> alkyl)-aryl, (CH<sub>2</sub>)<sub>m</sub>N(H) C(=O)aryl,  
5 (CH<sub>2</sub>)<sub>m</sub>-S(O)<sub>0-2</sub>-(CH<sub>2</sub>)<sub>n</sub>-substituted aryl, CH(C<sub>1</sub>-C<sub>6</sub> alkyl)-  
substituted aryl, (CH<sub>2</sub>)<sub>m</sub>N(H)C(=O) substituted aryl,  
C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub>aryl, C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub> heteroaryl, C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub>substituted  
10 heteroaryl, C≡C-(CH<sub>2</sub>)<sub>m</sub>aryl, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
C≡C-(CH<sub>2</sub>)<sub>m</sub>-heteroaryl, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,  
C≡C-(CH<sub>2</sub>)<sub>m</sub> carbocycle, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted carbocycle, (CH<sub>2</sub>)<sub>m</sub>-  
O-aryl, (CH<sub>2</sub>)<sub>m</sub>-O-substituted aryl, (CH<sub>2</sub>)<sub>m</sub> COR<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> CONR<sup>5</sup>R<sup>6</sup>,  
15 
$$\begin{array}{c} \text{NH} \\ \parallel \\ (\text{CH}_2)_m \text{CNR}^5\text{R}^6, \end{array}$$
$$\begin{array}{c} \text{S} \\ \parallel \\ (\text{CH}_2)_m \text{CNR}^5\text{R}^6, \text{ or } (\text{CH}_2)_m \text{CO}_2\text{R}^5; \end{array}$$
  
20 m is an integer from 0 to 6;  
m is 0 to 6;  
R<sup>5</sup> and R<sup>6</sup> independently are hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, substituted  
C<sub>1</sub>-C<sub>6</sub> alkyl, (CH<sub>2</sub>)<sub>m</sub> aryl, (CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CH<sub>2</sub>)<sub>m</sub>  
heteroaryl, (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, or R<sup>5</sup> and R<sup>6</sup> are taken  
25 together with the nitrogen atom to which they are attached  
complete a 3- to 7-membered ring containing carbon atoms, the  
nitrogen atom bearing R<sup>5</sup> and R<sup>6</sup>, and optionally 1 or 2

heteroatoms independently selected from O, S, and  $\text{NR}^2$ , wherein  $\text{R}^2$  is as defined above; and

n is 0 or 1; with the proviso that  $\text{R}^2$  and  $\text{R}^4$  are not both selected from hydrogen and  $\text{C}_1\text{-C}_6$  alkyl.

5

9. A compound of Formula VII



VII

or a pharmaceutically acceptable salt thereof,

wherein:

10

“---” is absent or is a bond;

$\text{R}^1$  is H,  $(\text{O})_n\text{C}_1\text{-C}_6$  alkyl,  $(\text{O})_n$  substituted  $\text{C}_1\text{-C}_6$  alkyl,  $\text{NO}_2$ ,  $\text{NR}^5\text{R}^6$ , CHO, or halo;

15

$\text{R}^2$ ,  $\text{R}^3$ , and  $\text{R}^4$  independently are hydrogen, halo,  $\text{C}_1\text{-C}_6$  alkyl, substituted  $\text{C}_1\text{-C}_6$  alkyl,  $\text{C}_2\text{-C}_6$  alkenyl, substituted  $\text{C}_2\text{-C}_6$  alkenyl,  $\text{C}_2\text{-C}_{10}$  alkynyl, substituted  $\text{C}_2\text{-C}_{10}$  alkynyl,  $(\text{CH}_2)_m\text{OH}$ ,  $(\text{CH}_2)_m\text{OR}^5$ ,  $(\text{CH}_2)_m$  cycloalkyl,  $(\text{CH}_2)_m$  substituted cycloalkyl,  $\text{CHOH}(\text{CH}_2)_m$  aryl,  $\text{CHOH}(\text{CH}_2)_m$  substituted aryl,  $\text{CHOH}(\text{CH}_2)_m$  heteroaryl,  $\text{CHOH}(\text{CH}_2)_m$  substituted heteroaryl,  $(\text{CO}_2)_n(\text{CH}_2)_m$  aryl,  $(\text{CO}_2)_n(\text{CH}_2)_m$  substituted aryl,  $(\text{CO}_2)_n(\text{CH}_2)_m$  heteroaryl,  $(\text{CO}_2)_n(\text{CH}_2)_m$  substituted heteroaryl,  $(\text{CO}_2)_n(\text{CH}_2)_m$  carbocycle,  $(\text{CO}_2)_n(\text{CH}_2)_m$  substituted carbocycle,  $(\text{CO}_2)_n(\text{CH}_2)_m$  heterocycle,  $(\text{CO}_2)_n(\text{CH}_2)_m$  substituted heterocycle,  $(\text{CO}_2)_n(\text{CH}_2)_m\text{NR}^5\text{R}^6$ ,  $(\text{CH}_2)_m\text{-S(O)}_{0-2}\text{-(CH}_2)_n\text{-aryl}$ ,  $\text{CH}(\text{C}_1\text{-C}_6\text{ alkyl})\text{-aryl}$ ,  $(\text{CH}_2)_m\text{N(H)C(=O)aryl}$ ,  $(\text{CH}_2)_m\text{-S(O)}_{0-2}\text{-(CH}_2)_n\text{-substituted}$

20

25

aryl, CH(C<sub>1</sub>-C<sub>6</sub> alkyl)-substituted aryl, (CH<sub>2</sub>)<sub>m</sub>N(H)C(=O)  
substituted aryl,

C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub>aryl, C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub> heteroaryl, C(=O)N(R<sup>5</sup>)-(CH<sub>2</sub>)<sub>m</sub>substituted  
heteroaryl, C≡C-(CH<sub>2</sub>)<sub>m</sub>aryl, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted aryl,  
C≡C-(CH<sub>2</sub>)<sub>m</sub>-heteroaryl, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl,  
C≡C-(CH<sub>2</sub>)<sub>m</sub> carbocycle, C≡C-(CH<sub>2</sub>)<sub>m</sub> substituted carbocycle, (CH<sub>2</sub>)<sub>m</sub>-  
O-aryl, (CH<sub>2</sub>)<sub>m</sub>-O-substituted aryl, (CH<sub>2</sub>)<sub>m</sub> COR<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> CONR<sup>5</sup>R<sup>6</sup>,

NH  
||  
(CH<sub>2</sub>)<sub>m</sub> CNR<sup>5</sup>R<sup>6</sup>,

S  
||  
(CH<sub>2</sub>)<sub>m</sub> CNR<sup>5</sup>R<sup>6</sup>, or (CH<sub>2</sub>)<sub>m</sub> CO<sub>2</sub>R<sup>5</sup>;

m is an integer from 0 to 6;

R<sup>5</sup> and R<sup>6</sup> independently are hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, substituted

C<sub>1</sub>-C<sub>6</sub> alkyl, (CH<sub>2</sub>)<sub>m</sub> aryl, (CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CH<sub>2</sub>)<sub>m</sub>  
heteroaryl, (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, or R<sup>5</sup> and R<sup>6</sup> are taken  
together with the nitrogen atom to which they are attached  
complete a 3- to 7-membered ring containing carbon atoms, the  
nitrogen atom bearing R<sup>5</sup> and R<sup>6</sup>, and optionally 1 or 2  
heteroatoms independently selected from O, S, and NR<sup>2</sup>, wherein  
R<sup>2</sup> is as defined above; and

n is 0 or 1; with the proviso that R<sup>2</sup> and R<sup>4</sup> are not both selected from  
hydrogen and C<sub>1</sub>-C<sub>6</sub> alkyl.

10. A compound, or a pharmaceutically acceptable salt thereof, selected from:

6-Benzyl-8-methyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-  
c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;

6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;

6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid benzylamide;

5 6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

6-Benzyl-1-methyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

10 6-(4-Methoxy-benzyl)-1-methyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

6-(4-Methoxy-benzyl)-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide;

15 6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzyl ester 2,3-Dihydroxypropionic acid benzyl ester;

6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid pyridin-4-ylmethyl ester hydrochloride;

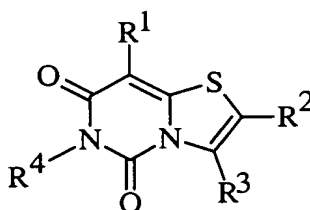
20 6-Benzyl-1,5,7-trioxo-1,2,3,5,6,7-hexahydro-1H-thiazolo[3,2-c]pyrimidine-3-carboxylic acid benzyl ester;

6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzyl ester; and

6-Benzyl-3-ethoxy-2,3-dihydro-oxazolo[3,2-c]pyrimidine-5,7-dione.

11. The compound according to Claim 1 of Formula VIII

25



VIII

or a pharmaceutically acceptable salt thereof, wherein:

R<sup>1</sup> is H, CH<sub>3</sub>, CH<sub>2</sub>OH, or CHO

$R^2$  is  $(CO_2)(CH_2)_m$  aryl,  $(CO_2)(CH_2)_m$  substituted aryl,  
 $(CO_2)(CH_2)_m$  heteroaryl,  $(CO_2)(CH_2)_m$  substituted heteroaryl,  
 $C(=O)N(R^5)-(CH_2)_m$ -aryl,  $C(=O)N(R^5)-(CH_2)_m$  substituted aryl,  
 $C(=O)N(R^5)-(CH_2)_m$  heteroaryl,  $C(=O)N(R^5)-(CH_2)_m$  substituted  
heteroaryl,  $C\equiv C-(CH_2)_m$  aryl,  $C\equiv C-(CH_2)_m$  substituted aryl,  
 $C\equiv C-(CH_2)_m$  heteroaryl, or  $C\equiv C-(CH_2)_m$  substituted heteroaryl,  
wherein  $R^5$  is hydrogen or methyl;

$R^3$  is hydrogen or fluoro;

$R^4$  is  $C_2$ - $C_6$  alkenyl, substituted  $C_2$ - $C_6$  alkenyl,  $C_1$ - $C_6$  alkyl, substituted  
 $C_1$ - $C_6$  alkyl,  $C_2$ - $C_{10}$  alkenyl, substituted  $C_2$ - $C_{10}$  alkynyl,  
 $(CH_2)_mCOR^5$ ,  $(CH_2)_mS(O)_{0-2}-(CH_2)_n$  aryl,  $C(=O)N(R^5)-$   
 $(CH_2)_m$ aryl,  $(CH_2)_m-O$ -aryl,  $(CH_2)_mS(O)_{0-2}-(CH_2)_n$  substituted  
aryl,  $C(=O)N(R^5)-(CH_2)_m$  substituted aryl,  $(CH_2)_m-O$ -substituted  
aryl,  $(CO_2)_n(CH_2)_m$  aryl,  $(CO_2)_n(CH_2)_m$  substituted aryl,  
 $(CO_2)_n(CH_2)_m$  heteroaryl,  $(CO_2)_n(CH_2)_m$  substituted heteroaryl,  
 $(CO_2)_n(CH_2)_m$  carbocycle, or  $(CO_2)_n(CH_2)_m$  substituted  
carbocycle, wherein

$n$  is 0 or 1;

$m$  is an integer of from 0 to 6; and

$R^5$  is hydrogen,  $C_1$ - $C_6$  alkyl, substituted  $C_1$ - $C_6$  alkyl,  $(CH_2)_m$  aryl,  
 $(CH_2)_m$  substituted aryl,  $(CH_2)_m$  heteroaryl, or  $(CH_2)_m$   
substituted heteroaryl.

12. The compound according to Claim 11, or a pharmaceutically acceptable  
salt thereof, wherein:

$R^1$  is H or  $CH_3$ ;

$R^2$  is  $C(=O)N(R^5)-(CH_2)_m$  aryl,  $C(=O)N(R^5)-(CH_2)_m$  substituted aryl,  
 $C(=O)N(R^5)-(CH_2)_m$  heteroaryl,  $C(=O)N(R^5)-(CH_2)_m$  substituted

heteroaryl,  $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{aryl}$ ,  $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{substituted aryl}$ ,  $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{heteroaryl}$ , or  $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{substituted heteroaryl}$ , wherein

$\text{R}^5$  is H or methyl;

$\text{R}^3$  is hydrogen or fluoro;

5  $\text{R}^4$  is  $(\text{CO}_2)_n(\text{CH}_2)_m\text{aryl}$ ,  $(\text{CO}_2)_n(\text{CH}_2)_m\text{substituted aryl}$ ,  
 $(\text{CO}_2)_n(\text{CH}_2)_m\text{heteroaryl}$ ,  $(\text{CO}_2)_n(\text{CH}_2)_m\text{substituted heteroaryl}$ ,  
 $(\text{CO}_2)_n(\text{CH}_2)_m\text{carbocycle}$ , or  $(\text{CO}_2)_n(\text{CH}_2)_m\text{substituted carbocycle}$ , wherein:

$n$  is 0 or 1, and

10  $m$  is an integer of from 0 to 6.

13. The compound according to Claim 11, or a pharmaceutically acceptable salt thereof, wherein:

$\text{R}^1$  is H or  $\text{CH}_3$ ;

15  $\text{R}^2$  is  $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{aryl}$ ,  $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{substituted aryl}$ ,  
 $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{heteroaryl}$ , or  $\text{C}\equiv\text{C}-(\text{CH}_2)_m\text{substituted heteroaryl}$ ,  
wherein:

$m$  is 1;

$\text{R}_3$  is hydrogen or fluoro; and

20  $\text{R}_4$  is  $(\text{CO}_2)_n(\text{CH}_2)_m\text{aryl}$ ,  $(\text{CO}_2)_n(\text{CH}_2)_m\text{substituted aryl}$ ,  
 $(\text{CO}_2)_n(\text{CH}_2)_m\text{heteroaryl}$ ,  $(\text{CO}_2)_n(\text{CH}_2)_m\text{substituted heteroaryl}$ ,  
 $(\text{CO}_2)_n(\text{CH}_2)_m\text{carbocycle}$ , or  $(\text{CO}_2)_n(\text{CH}_2)_m\text{substituted carbocycle}$ , wherein

$n$  is 0 and  $m$  is 1.

25 14. The compound according to Claim 11, or a pharmaceutically acceptable salt thereof, wherein:

$\text{R}_1$  is H or  $\text{CH}_3$ ;



$R_2$  is  $C(=O)N(R^5)-(CH_2)_m$ aryl,  $C(=O)N(R^5)-(CH_2)_m$ substituted aryl,  
 $C(=O)N(R^5)-(CH_2)_m$ heteroaryl, or  $C(=O)N(R^5)-$   
 $(CH_2)_m$ substituted heteroaryl,

wherein  $m$  is 1 and  $R^5$  is H or  $CH_3$ ;

5  $R^3$  is hydrogen or fluoro; and

$R^4$  is  $(CO_2)_n(CH_2)_m$ aryl,  $(CO_2)_n(CH_2)_m$ substituted aryl,  
 $(CO_2)_n(CH_2)_m$ heteroaryl,  $(CO_2)_n(CH_2)_m$ substituted heteroaryl,  
 $(CO_2)_n(CH_2)_m$ carbocycle, or  $(CO_2)_n(CH_2)_m$ substituted  
carbocycle, wherein

10  $n$  is 0 and  $m$  is 1.

15. The compound according to Claim 11, or a pharmaceutically acceptable  
salt thereof, selected from:

4-[8-Methyl-5,7-dioxo-2-(3-phenyl-prop-1-ynyl)-7H-thiazolo[3,2-  
c]pyrimidin-6-ylmethyl]-benzoic acid;

15 4-{2-[3-(4-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-  
thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid;

4-{2-[3-(4-Fluoro-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-  
thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid;

20 4-{2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-  
thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid;

4-{2-[3-(3,4-Difluoro-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-  
7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid;

6-Benzyl-8-methyl-2-(3-pyridin-4-yl-prop-1-ynyl)-thiazolo[3,2-  
c]pyrimidine-5,7-dione;

25 6-(3,4-Dichloro-benzyl)-8-methyl-2-(3-pyridin-4-yl-prop-1-ynyl)-  
thiazolo[3,2-c]pyrimidine-5,7-dione;

6-(3,4-Dichloro-benzyl)-2-[3-(2-methoxy-pyridin-4-yl)-prop-1-  
ynyl]-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

30 6-Benzyl-8-methyl-2-phenylethynyl-thiazolo[3,2-c]pyrimidine-5,7-  
dione;

6-(4-Bromo-benzyl)-2-[3-(3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

4-{2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzenesulfonamide;

5 4-{2-[3-(3-Fluoro-4-methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid;

6-(4-Fluoro-benzyl)-8-methyl-2-(3-phenyl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

10 6-Benzyl-8-methyl-2-(3-phenyl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-(3,4-Dichloro-benzyl)-2-[3-(3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-(4-Methanesulfonyl-benzyl)-8-methyl-2-(3-pyridin-4-yl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

15 4-{2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzonitrile;

4-[8-Methyl-5,7-dioxo-2-(3-phenyl-prop-1-ynyl)-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid;

20 2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-6-[4-(2H-tetrazol-5-yl)-benzyl]-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-Benzyl-2-[3-(3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-Benzyl-8-methyl-2-(3-phenyl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

25 2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-6-[4-(morpholine-4-carbonyl)-benzyl]-thiazolo[3,2-c]pyrimidine-5,7-dione;

8-Methyl-6-[4-(morpholine-4-sulfonyl)-benzyl]-2-(3-pyridin-4-yl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

30 2-[3-(4-Fluoro-phenyl)-prop-1-ynyl]-8-methyl-6-(2-oxo-2H-1-benzopyran-6-ylmethyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-6-(2-oxo-2H-1-benzopyran-6-ylmethyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

4-[8-Methyl-5,7-dioxo-2-(4-phenyl-but-1-ynyl)-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid;

4-[8-Methyl-5,7-dioxo-2-(6-phenyl-hex-1-ynyl)-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid;

5 4-[8-Methyl-5,7-dioxo-2-(5-phenyl-pent-1-ynyl)-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid;

4-[8-Methyl-5,7-dioxo-2-(7-phenyl-hept-1-ynyl)-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid;

10 (4-{2-[3-(3,4-Difluoro-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-phenyl)-acetic acid;

6-(3-Fluoro-benzyl)-8-methyl-2-(3-pyridin-4-yl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-(3,4-Difluoro-benzyl)-8-methyl-2-(3-pyridin-4-yl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

15 6-(3-Fluoro-benzyl)-2-[3-(2-methoxy-pyridin-4-yl)-prop-1-ynyl]-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

[3-(8-Methyl-5,7-dioxo-2-phenylethynyl-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl)-phenyl]-acetic acid;

20 6-(4-Bromo-benzyl)-2-[3-(4-fluoro-3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

4-{2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-N,N-dimethyl-benzenesulfonamide;

25 4-{2-[3-(3-Fluoro-4-methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-cyclohexanecarboxylic acid;

6-(3,4-Difluoro-benzyl)-2-[3-(3,4-difluoro-phenyl)-prop-1-ynyl]-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

4-[8-Methyl-5,7-dioxo-2-(3-phenyl-prop-1-ynyl)-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-cyclohexanecarboxylic acid;

30 2-Chloro-4-{2-[3-(3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid;

2-[3-(4-Fluoro-phenyl)-prop-1-ynyl]-6-(4-methanesulfonyl-benzyl)-8-methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

4-{2-[3-(4-Fluoro-3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzonitrile;

(3-{2-[3-(4-Fluoro-3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-phenyl)-acetic acid;

5 (4-{2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-phenyl)-acetic acid;

6-(3,4-Difluoro-benzyl)-8-methyl-2-(3-phenyl-prop-1-ynyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

10 2-[3-(3-Methoxy-phenyl)-prop-1-ynyl]-8-methyl-6-[4-(thiomorpholine-4-carbonyl)-benzyl]-thiazolo[3,2-c]pyrimidine-5,7-dione;

8-Methyl-2-(3-pyridin-4-yl-prop-1-ynyl)-6-[4-(thiomorpholine-4-sulfonyl)-benzyl]-thiazolo[3,2-c]pyrimidine-5,7-dione;

15 2-[3-(4-Fluoro-3-methoxy-phenyl)-prop-1-ynyl]-8-methyl-6-(2-oxo-2H-1-benzopyran-6-ylmethyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;  
and

2-[3-(3-Methoxy-4-methyl-phenyl)-prop-1-ynyl]-8-methyl-6-(2-oxo-2H-1-benzopyran-6-ylmethyl)-thiazolo[3,2-c]pyrimidine-5,7-dione.

20 16. The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, selected from:

6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid biphenyl-4-ylamide;

25 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-fluoro-benzylamide;

30 6-Benzoyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

6-(3,4-Dichloro-benzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

6-(4-Chloro-benzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;  
6-(4-Chloro-benzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dichloro-benzylamide;  
5 5,7-Dioxo-6-pyridin-4-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide hydrochloride;  
6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;  
6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;  
10 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dichlorobenzylamide;  
6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;  
15 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 2,4-dichloro-benzylamide;  
6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-methyl-benzylamide;  
6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;  
20 6-Benzyl-8-formyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;  
6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (1H-indol-5-ylmethyl)-amide;  
25 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (thiazol-4-ylmethyl)-amide hydrochloride;  
6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;  
6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;  
30 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide hydrochloride;

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6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (imidazo[2,1-b]thiazol-6-ylmethyl)-amide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (1-methyl-1H-pyrazol-4-ylmethyl)-amide;

5 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-2-ylmethyl)-amide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2,1,3-benzothiadiaazol-5-ylmethyl)-amide;

10 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-difluoro-benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide hydrochloride;

15 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-fluoro-4-methoxy-benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-2-ylmethyl)-amide hydrochloride;

20 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methyl-benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-trifluoromethyl-benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-chloro-benzylamide;

25 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-trifluoromethoxy-benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-thiazol-4-ylmethyl)-amide hydrochloride;

30 4-[2-(4-Methoxy-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid;

4-[2-(4-Methoxy-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid Sodium salt;

4-[2-(4-Methoxy-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid 2-dimethylamino-ethyl ester hydrochloride;

4-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid;

4-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid Sodium salt;

4-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid 2-dimethylamino-ethyl ester;

4-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid 2-dimethylamino-ethyl ester hydrochloride;

4-{8-Methyl-5,7-dioxo-2-[(pyridin-4-ylmethyl)-carbamoyl]-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid trifluoro-acetic acid salt;

4-{8-Methyl-5,7-dioxo-2-[(pyridin-4-ylmethyl)-carbamoyl]-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl}-benzoic acid 2-dimethylamino-ethyl ester dihydrochloride;

8-Methyl-6-(2-methyl-thiazol-4-ylmethyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

2-Chloro-4-[2-(4-fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid methyl ester;

8-Methyl-5,7-dioxo-6-(2H-tetrazol-5-ylmethyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

8-Methyl-5,7-dioxo-6-thiazol-2-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide hydrochloride;

4-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-2-methyl-benzoic acid methyl ester;

4-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-2-methoxy-benzoic acid methyl ester;

6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

5 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

10 8-Methyl-6-[4-(morpholine-4-carbonyl)-benzyl]-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

15 {5-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-isoxazol-3-yl}-carbamic acid methyl ester;

8-Methyl-5,7-dioxo-6-[4-(2H-tetrazol-5-yl)-benzyl]-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

20 8-Methyl-6-[4-(morpholine-4-carbonyl)-benzyl]-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

6-(6-Fluoro-quinolin-2-ylmethyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

25 2-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-5-methoxy-pyrimidine-4-carboxylic acid methyl ester;

6-But-2-ynyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

30 8-Methyl-5,7-dioxo-6-(2-oxo-2H-1-benzopyran-6-ylmethyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

6-(4-Methanesulfonyl-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;



6-(3-Cyano-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

5 6-[2-(4-Chloro-benzenesulfonyl)-ethyl]-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

8-Methyl-5,7-dioxo-6-(4-sulfamoyl-benzyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

10 6-(4-Cyano-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

8-Methyl-5,7-dioxo-6-(3-oxo-3-phenyl-propyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

15 8-Methyl-5,7-dioxo-6-(1-phenyl-ethyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

8-Methyl-5,7-dioxo-6-(2-phenylmethanesulfonyl-ethyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

20 6-(5-Cyano-pentyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

6-(E)-But-2-enyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

25 8-Methyl-5,7-dioxo-6-(E)-pent-2-enyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

6-sec-Butyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

6-(2-Benzenesulfonyl-ethyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

30 6-(1-Ethyl-propyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

8-Methyl-5,7-dioxo-6-pent-2-ynyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

6-(2-Benzenesulfonyl-ethyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

8-Methyl-6-(3-methyl-but-2-enyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

5 6-[2-(4-Fluoro-benzenesulfonyl)-ethyl]-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

10 6-[3-(4-Fluoro-phenyl)-3-oxo-propyl]-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

6-(2-Benzoylamino-ethyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

8-Methyl-5,7-dioxo-6-(2-phenoxy-ethyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

15 6-(3,4-Dichloro-benzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

6-(4-Cyano-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;

20 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-methoxy-benzylamide; and

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (tetrahydro-furan-2-ylmethyl)-amide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

25 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-fluoro-benzylamide;

6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-fluoro-benzylamide;

30 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methyl-benzylamide;

8-Methyl-5,7-dioxo-6-pyridin-4-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide;

5 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

6-(4-Methoxy-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

10 8-Methyl-5,7-dioxo-6-pyridin-4-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;

15 6-(4-Methanesulfonyl-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;

8-Methyl-5,7-dioxo-6-(4-sulfamoyl-benzyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;

20 6-(4-Dimethylsulfamoyl-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;

8-Methyl-5,7-dioxo-6-pyridin-3-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;

8-Methyl-5,7-dioxo-6-pyridin-2-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;

25 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-methoxy-benzylamide;

6-(3-Methoxy-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-methoxy-benzylamide;

30 6-(3-Methoxy-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;

6-Benzo[1,3]dioxol-5-ylmethyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;

5 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methylsulfanylbenzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dichlorobenzylamide;

10 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxybenzylamide;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

15 6-(4-Pyridylmethyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide hydrochloride;

6-(4-Chlorobenzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dichlorobenzylamide;

6-(4-Chlorobenzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

20 6-(3,4-Dichlorobenzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

6-Benzoyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

25 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-fluoro-benzylamide;

6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;

6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid biphenyl-4-ylamide;

30 6-Benzyl-8-formyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide; and

6-Benzyl-8-hydroxymethyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide.

17. The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, selected from:

4-[2-(4-Methoxy-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid methyl ester;

5 4-[2-(3-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid methyl ester;

4-[2-(4-Fluoro-benzylcarbamoyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-ylmethyl]-benzoic acid methyl ester;

10 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzyl ester;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzyl ester;

6-Benzyl-3-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid methyl ester;

15 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid methyl ester;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid pyridin-4-ylmethyl ester;

20 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid pyridin-4-ylmethyl ester;

8-Methyl-5,7-dioxo-6-pyridin-4-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzyl ester; and

6-Benzyl-3-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzyl ester.

- 25 18. The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, selected from:

6-Benzoyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-(4-Chlorobenzyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;

6-Pyridin-4-ylmethyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

30 8-Methyl-thiazolo[3,2-c]pyrimidine-5,7-dione;

8-Methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid;

6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid;

4-(8-Methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidin-6-yl-methyl)-benzoic acid tert-butyl ester; and

5 8-Methyl-6-[4-(Morpholine-4-sulfonyl)benzyl]-thiazolo[3,2-c]pyrimidine-5,7-dione.

19. The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, selected from:

10 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

15 6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

20 6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

25 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

30 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

5 6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

10 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

15 6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

20 6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-amino-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

25 6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

30 6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

5 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

10 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

15 6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

20 6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

25 6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

30 6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;

6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-ethoxy-pyridin-4-ylmethyl)-amide;



6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

5 6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

10 6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

15 6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

20 6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

25 6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

30 6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

5 6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

10 6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-hydroxy-pyridin-3-ylmethyl)-amide;

15 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

20 6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

25 6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

30 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

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6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

5 6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

10 6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

15 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

20 6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide;

25 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

30 6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

5 6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

10 6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

15 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

20 6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

25 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

30 6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methyl-pyridin-4-ylmethyl)-amide;

5 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

10 6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

15 6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

20 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

25 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

30 6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

5 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

10 6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

15 6-(4-Chloro-3-bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methylamino-pyridin-4-ylmethyl)-amide;

6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

20 6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

25 6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

30 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

5 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

10 6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-3-ylmethyl)-amide;

15 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

20 6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

25 6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

30 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

5 6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

10 6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

15 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

20 6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-amino-pyridin-3-ylmethyl)-amide;

25 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

30 6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;



6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

5 6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

10 6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

15 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

20 6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

25 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

30 6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-ethoxy-pyridin-3-ylmethyl)-amide;

5 6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

10 6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

15 6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

20 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

25 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

30 6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

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6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

5 6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

10 6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

15 6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methoxy-pyridin-3-ylmethyl)-amide;

6-(4-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

20 6-(4-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

6-(4-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

25 6-(3-Bromo-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

30 6-(3-Bromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

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6-(4-Bromo-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

5 6-(3-Chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

10 6-(3,4-Dibromo-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

15 6-(4-Bromo-3-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

6-(3,4-Difluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

20 6-(3-Bromo-4-chloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

6-(3-Chloro-4-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

25 6-(4-Chloro-3-fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (6-methyl-pyridin-3-ylmethyl)-amide;

30 6-(4-Cyano-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide; and

6-(4-Isopropylsulfamoyl-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (2-methoxy-pyridin-4-ylmethyl)-amide.

20. The compound according to Claim 1, or a pharmaceutically acceptable salt thereof, selected from:

- 5           8-Methyl-5,7-dioxo-6-(3-oxo-3-phenyl-propyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluoro-benzylamide;
- 8-Methyl-6-(1-phenylethyl) 5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 8-Methyl-5,7-dioxo-6-(2-phenylmethanesulfonyl-ethyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-
- 10          fluorobenzylamide;
- 6-(5-Cyano-pentyl)-8-Methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 6-(E)-But-2-enyl-8-Methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-
- 15          c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 8-Methyl-5,7-dioxo-6-(E)-pent-2-enyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 6-sec-Butyl-8-Methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-
- 20          c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 8-Methyl-6-(2-methyl-allyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 6-(1-Ethyl-propyl)-8-Methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 8-Methyl-5,7-dioxo-6-pent-2-ynyl-6,7-dihydro-5H-thiazolo[3,2-
- 25          c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 6-(2-Benzensulfonyl-ethyl)-8-Methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 8-Methyl-6-(3-methyl-but-2-enyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;
- 6-[2-(4-Fluoro-benzensulfonyl)-ethyl]-8-Methyl-5,7-dioxo-6,7-
- 30          dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;

6-[3-(4-Fluoro-phenyl)-3-oxo-propyl]-8-Methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;

8-Methyl-5,7-dioxo-6-{2-[(1-phenyl-methanoyl)-amino]-ethyl}-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide;

8-Methyl-5,7-dioxo-6-(2-phenoxy-ethyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-fluorobenzylamide; and

{5-[2-(4-Fluoro-benzylcarbonyl)-8-methyl-5,7-dioxo-7H-thiazolo[3,2-c]pyrimidine-6-ylmethyl]-isoxazol-3-yl}-carbamic acid methyl.

21. A pharmaceutical composition, comprising a compound of Claim 1, or a pharmaceutically acceptable salt thereof, admixed with a pharmaceutically acceptable carrier, diluent, or excipient.

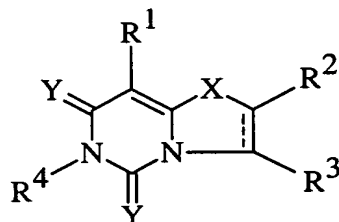
22. A method for inhibiting MMP-13 in an animal, comprising administering to the animal an MMP-13 inhibiting amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.

23. A method for treating a disease mediated by an MMP-13 enzyme, comprising administering to a patient suffering from such a disease an effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.

24. A method for treating a cancer, comprising administering to a patient suffering from such a disease an anticancer effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.

25. A method for treating breast carcinoma, comprising administering to a patient suffering from such a disease an anticancer effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.

26. A method for treating a rheumatoid arthritis, comprising administering to a patient suffering from such a disease an effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.
27. A method for treating a osteoarthritis, comprising administering to a patient suffering from such a disease an effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.
28. A method for treating a heart failure, comprising administering to a patient suffering from such a disease an effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.
29. A method for treating a inflammation, comprising administering to a patient suffering from such a disease an effective amount of a compound of Claim 1, or a pharmaceutically acceptable salt thereof.
30. A compound of Formula I



I

and the pharmaceutically acceptable salts thereof,

wherein:

“---” is absent or is a bond;

X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, C = O, CHOH, NH, or NR<sup>5</sup>;

Y is O or S;

R<sup>1</sup> is H, (O)<sub>n</sub>C<sub>1</sub>-C<sub>6</sub> alkyl, NO<sub>2</sub>, NR<sup>5</sup>R<sup>6</sup>, CHO, or halo;

R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> independently are hydrogen, halo, C<sub>1</sub>-C<sub>6</sub> alkyl,

C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, (CH<sub>2</sub>)<sub>m</sub> OH, (CH<sub>2</sub>)<sub>m</sub> OR<sup>5</sup>,

(CH<sub>2</sub>)<sub>m</sub> cycloalkyl, (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH

(CH<sub>2</sub>)<sub>m</sub> substituted aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> heteroaryl, CHOH  
(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> aryl,  
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heteroaryl,  
(CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> carbocycle,  
5 (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> NR<sup>5</sup>R<sup>6</sup>,

NH

||

(CH<sub>2</sub>)<sub>m</sub> COR<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> CONR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub> CNR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub>

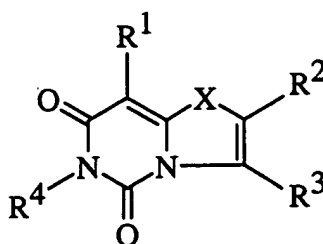
S

||

CNR<sup>5</sup>R<sup>6</sup>, or (CH<sub>2</sub>)<sub>m</sub> CO<sub>2</sub>R<sup>5</sup>; m is an integer from 0 to 6;

R<sup>5</sup> and R<sup>6</sup> independently are hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, (CH<sub>2</sub>)<sub>m</sub> aryl,  
(CH<sub>2</sub>)<sub>m</sub> heteroaryl, or taken together with the nitrogen to which  
they are attached complete a 3- to 7-membered ring; and  
15 n is 0 or 1.

31. A compound of Formula II



II

and the pharmaceutically acceptable salts thereof,  
wherein:

20 X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, C = O, CHOH, NH, or NR<sup>5</sup>;

Y is O or S;

R<sup>1</sup> is H, (O)<sub>n</sub>, C<sub>1</sub>-C<sub>6</sub> alkyl, NO<sub>2</sub>, NR<sup>5</sup>R<sup>6</sup>, CHO, or halo;

R<sup>2</sup>, R<sup>3</sup>, and R<sup>4</sup> independently are hydrogen, halo, C<sub>1</sub>-C<sub>6</sub> alkyl,

C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, (CH<sub>2</sub>)<sub>m</sub> OH, (CH<sub>2</sub>)<sub>m</sub> OR<sup>5</sup>,



(CH<sub>2</sub>)<sub>m</sub> cycloalkyl, (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> aryl, CHOH  
 (CH<sub>2</sub>)<sub>m</sub> substituted aryl, CHOH (CH<sub>2</sub>)<sub>m</sub> heteroaryl, CHOH  
 (CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> aryl,  
 (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted aryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heteroaryl,  
 (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> substituted heteroaryl, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> carbocycle,  
 (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> heterocycle, (CO<sub>2</sub>)<sub>n</sub>(CH<sub>2</sub>)<sub>m</sub> NR<sup>5</sup>R<sup>6</sup>,

NH

||

(CH<sub>2</sub>)<sub>m</sub> COR<sup>5</sup>, (CH<sub>2</sub>)<sub>m</sub> CONR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub> CNR<sup>5</sup>R<sup>6</sup>, (CH<sub>2</sub>)<sub>m</sub>

S

||

CNR<sup>5</sup>R<sup>6</sup>, or (CH<sub>2</sub>)<sub>m</sub> CO<sub>2</sub>R<sup>5</sup>;

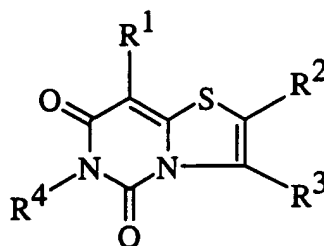
m is an integer from 0 to 6;

R<sup>5</sup> and R<sup>6</sup> independently are hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, (CH<sub>2</sub>)<sub>m</sub> aryl,

(CH<sub>2</sub>)<sub>m</sub> heteroaryl, or taken together with the nitrogen to which  
 they are attached complete a 3- to 7-membered ring; and

n is 0 or 1.

32. A compound of Formula III



III

and the pharmaceutically acceptable salts thereof;

wherein:

X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, C = O, CHOH, NH, or NR<sup>5</sup>;

Y is O or S;

R<sup>1</sup> is H, C<sub>1</sub>-C<sub>6</sub> alkyl, NO<sub>2</sub>, NR<sup>5</sup>R<sup>6</sup>, CHO, or halo;

$R^2$ ,  $R^3$ , and  $R^4$  independently are hydrogen, halo,  $C_1$ - $C_6$  alkyl,

$C_2$ - $C_6$  alkenyl,  $C_2$ - $C_6$  alkynyl,  $(CH_2)_m$  OH,  $(CH_2)_m$  OR<sup>5</sup>,  
 $(CH_2)_m$  cycloalkyl,  $(CH_2)_m$  aryl, CHOH  $(CH_2)_m$  aryl, CHOH  
 $(CH_2)_m$  substituted aryl, CHOH  $(CH_2)_m$  heteroaryl, CHOH  
 $(CH_2)_m$  substituted heteroaryl, (CO<sub>2</sub>)(CH<sub>2</sub>)<sub>m</sub> aryl, (CO<sub>2</sub>)(CH<sub>2</sub>)<sub>m</sub>  
substituted aryl, (CO<sub>2</sub>)(CH<sub>2</sub>)<sub>m</sub> heteroaryl, (CO<sub>2</sub>)(CH<sub>2</sub>)<sub>m</sub>  
substituted heteroaryl, (CO<sub>2</sub>)(CH<sub>2</sub>)<sub>m</sub> carbocycle, (CO<sub>2</sub>)(CH<sub>2</sub>)<sub>m</sub>  
heterocycle, (CO<sub>2</sub>)(CH<sub>2</sub>)<sub>m</sub> NR<sup>5</sup>R<sup>6</sup>,

NH

||

$(CH_2)_m$  COR<sup>5</sup>,  $(CH_2)_m$  CONR<sup>5</sup>R<sup>6</sup>,  $(CH_2)_m$  CNR<sup>5</sup>R<sup>6</sup>,  $(CH_2)_m$

S

||

CNR<sup>5</sup>R<sup>6</sup>, or  $(CH_2)_m$  CO<sub>2</sub>R<sup>5</sup>;

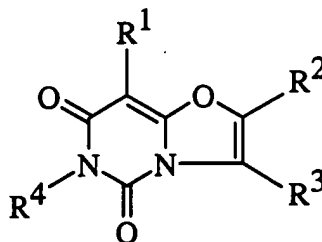
$m$  is an integer from 0 to 6;

$R^5$  and  $R^6$  independently are hydrogen,  $C_1$ - $C_6$  alkyl,  $(CH_2)_m$  aryl,

$(CH_2)_m$  heteroaryl, or taken together with the nitrogen to which  
they are attached complete a 3- to 7-membered ring; and

$n$  is 0 or 1.

33. A compound of Formula IV



IV

and the pharmaceutically acceptable salts thereof,  
wherein:

X is O, S, SO, SO<sub>2</sub>, CH<sub>2</sub>, C = O, CHOH, NH, or NR<sup>5</sup>;

Y is O or S;

$R^1$  is H,  $(O)_n$ ,  $C_1$ - $C_6$  alkyl,  $NO_2$ ,  $NR^5R^6$ , CHO, or halo;

$R^2$ ,  $R^3$ , and  $R^4$  independently are hydrogen, halo,  $C_1$ - $C_6$  alkyl,

$C_2$ - $C_6$  alkenyl,  $C_2$ - $C_6$  alkynyl,  $(CH_2)_m$  OH,  $(CH_2)_m$  OR<sup>5</sup>,  
 $(CH_2)_m$  cycloalkyl,  $(CH_2)_m$  aryl, CHOH  $(CH_2)_m$  aryl, CHOH  
 $(CH_2)_m$  substituted aryl, CHOH  $(CH_2)_m$  heteroaryl, CHOH  
 $(CH_2)_m$  substituted heteroaryl,  $(CO_2)_n(CH_2)_m$  aryl,  
 $(CO_2)_n(CH_2)_m$  substituted aryl,  $(CO_2)_n(CH_2)_m$  heteroaryl,  
 $(CO_2)_n(CH_2)_m$  substituted heteroaryl,  $(CO_2)_n(CH_2)_m$  carbocycle,  
 $(CO_2)_n(CH_2)_m$  heterocycle,  $(CO_2)_n(CH_2)_m$  NR<sup>5</sup>R<sup>6</sup>,

NH

||

$(CH_2)_m$  COR<sup>5</sup>,  $(CH_2)_m$  CONR<sup>5</sup>R<sup>6</sup>,  $(CH_2)_m$  CNR<sup>5</sup>R<sup>6</sup>,  $(CH_2)_m$

S

||

CNR<sup>5</sup>R<sup>6</sup>, or  $(CH_2)_m$  CO<sub>2</sub>R<sup>5</sup>;

m is an integer from 0 to 6;

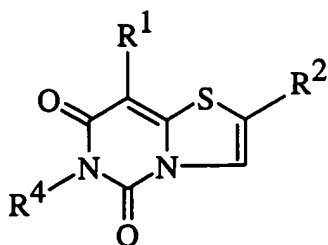
$R^5$  and  $R^6$  independently are hydrogen,  $C_1$ - $C_6$  alkyl,  $(CH_2)_m$  aryl,

$(CH_2)_m$  heteroaryl, or taken together with the nitrogen to which

they are attached complete a 3- to 7-membered ring; and

n is 0 or 1.

34. A compound of Formula V



V

and the pharmaceutically acceptable salts thereof,

wherein  $R^1$  is hydrogen or alkyl,  $R^2$  is  $(CO_2)_n(CH_2)_m$  aryl,

$(CO_2)_n(CH_2)_m$  substituted aryl,  $R^4$  is  $(CH_2)_m CO_2R^5$ ,  $(CH_2)_m$   
CONR<sup>5</sup>R<sup>6</sup>, CHOH  $(CH_2)_m$  aryl, CHOH  $(CH_2)_m$  substituted aryl,  
CHOH  $(CH_2)_m$  heteroaryl, CHOH  $(CH_2)_m$  substituted heteroaryl,  
5  $(CO_2)_n(CH_2)_m$  aryl,  $(CO_2)_n(CH_2)_m$  substituted aryl,  
 $(CO_2)_n(CH_2)_m$  heteroaryl,  $(CO_2)_n(CH_2)_m$  substituted heteroaryl,  
 $(CO_2)_n(CH_2)_m$  carbocycle, or  $(CO_2)_n(CH_2)_m$  heterocycle;

m is 0 to 6;

n is 0 or 1.

- 10 35. A compound selected from the group consisting of:
- 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid benzyl ester;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid benzyl ester;
- 15 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid benzylamide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid 3-fluoro-benzylamide;
- 6-(3-Fluoro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-  
20 thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-fluoro-benzylamide;
- 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-  
thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;
- 6-(3,4-Dichloro-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-  
thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methyl-  
25 benzylamide;
- 8-Methyl-5,7-dioxo-6-pyridin-4-ylmethyl-6,7-dihydro-5H-  
thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid (pyridin-4-ylmethyl)-amide;

- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid pyridin-4-ylmethyl ester;
- 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid pyridin-4-ylmethyl ester;
- 5 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;
- 6-(4-Methoxy-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;
- 10 8-Methyl-5,7-dioxo-6-pyridin-4-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;
- 8-Methyl-5,7-dioxo-6-pyridin-4-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzyl
- 15 ester;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;
- 6-(4-Methanesulfonyl-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-
- 20 benzylamide;
- 8-Methyl-5,7-dioxo-6-(4-sulfamoyl-benzyl)-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;
- 6-(4-Dimethylsulfamoyl-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-
- 25 benzylamide;
- 8-Methyl-5,7-dioxo-6-pyridin-3-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;
- 30 8-Methyl-5,7-dioxo-6-pyridin-2-ylmethyl-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dimethoxy-benzylamide;

- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-methoxy-benzylamide;
- 5 6-(3-Methoxy-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3-methoxy-benzylamide;
- 6-(3-Methoxy-benzyl)-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;
- 10 6-Benzo[1,3]dioxol-5-ylmethyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carbothioic acid benzylamide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carbothioic acid 4-methoxy-benzylamide;
- 15 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methylsulfanyl-benzylamide;
- 6-Benzyl-3-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzyl ester;
- 20 6-Benzyl-8-mentyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dichlorobenzylamide;
- 6-Benzyl-8-mentyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxybenzylamide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;
- 25 6-(4-Pyridylmethyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide hydrochloride;
- 6-(4-Chlorobenzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid 3,4-dichlorobenzylamide;
- 30 6-(4-Chlorobenzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;
- 6-(3,4-Dichlorobenzyl)-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;

- 6-Benzoyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid benzylamide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid 3-fluoro-benzylamide;
- 5 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid (pyridin-4-ylmethyl)-amide hydrochloride;
- 6-Benzyl-2-(3-phenyl-propionyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;
- 6-Benzyl-2-(hydroxy-phenyl-methyl)-thiazolo[3,2-c]pyrimidine-5,7-dione;
- 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-thiazolo[3,2-c]pyrimidine-  
10 2-carboxylic acid biphenyl-4-ylamide;
- 6-Benzyl-2-(1-hydroxy-3-phenyl-propyl)-thiazolo[3,2-c]pyrimidine-  
5,7-dione;
- 6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-  
2-carboxylic acid benzyl ester;
- 15 2,3-Dihydroxypropionic acid benzyl ester;
- 2,2-Dioxo-2H-[1,2]oxathiolane-4-carboxylic acid benzyl ester;
- 6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-2-  
carboxylic acid benzyl ester;
- 6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-2-  
20 carboxylic acid pyridin-4-ylmethyl ester hydrochloride;
- 6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-2-  
carboxylic acid;
- 6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-2-  
carboxylic acid pyridin-4-ylmethyl ester hydrochloride;
- 25 6-Benzyl-5,7-dioxo-2,3,6,7-tetrahydro-5H-thiazolo[3,2-c]pyrimidine-2-  
carboxylic acid (pyridin-4-ylmethyl)-amide;
- 6-Benzyl-1,5,7-trioxo-1,2,3,5,6,7-hexahydro-1H-thiazolo[3,2-  
c]pyrimidine-3-carboxylic acid benzyl ester;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-  
2-carboxylic acid benzyl ester;
- 30 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-  
carboxylic acid benzyl ester;

- 6-Benzyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid benzylamide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;
- 5 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide;
- 6-Benzyl-8-methyl-5,7-dioxo-6,7-dihydro-5H-oxazolo[3,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;
- 10 6-Benzyl-8-methyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;
- 6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid (benzo[1,3]dioxol-5-ylmethyl)-amide;
- 15 6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid benzylamide;
- 6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;
- 6-Benzyl-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzyl ester;
- 20 6-Benzyl-1-methyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;
- 6-(4-Methoxy-benzyl)-1-methyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid 4-methoxy-benzylamide;
- 25 6-(4-Methoxy-benzyl)-1,8-dimethyl-5,7-dioxo-1,5,6,7-tetrahydro-imidazo[1,2-c]pyrimidine-2-carboxylic acid (pyridin-4-ylmethyl)-amide; and
- 6-Benzyl-3-ethoxy-2,3-dihydro-oxazolo[3,2-c]pyrimidine-5,7-dione.
36. A pharmaceutical composition comprising a compound of
- 30 Claim 30 together with a pharmaceutically acceptable carrier, diluent, or excipient.



37. A pharmaceutical composition comprising a compound of Claim 31 together with a pharmaceutically acceptable carrier, diluent, or excipient.
- 5 38. A pharmaceutical composition comprising a compound of Claim 32 together with a pharmaceutically acceptable carrier, diluent, or excipient.
39. A pharmaceutical composition comprising a compound of Claim 33 together with a pharmaceutically acceptable carrier, diluent, or excipient.
- 10 40. A pharmaceutical composition comprising a compound of Claim 34 together with a pharmaceutically acceptable carrier, diluent, or excipient.
- 15 41. A method for inhibiting MMP-13 enzymes in animals comprising administering to the animal an MMP-13 inhibiting amount of a compound of Claim 30.
42. A method for treating cancer comprising administering to a patient having cancer and in need of treatment an anticancer effective amount of a compound of Claim 30.
- 20 43. A method for treating osteoarthritis comprising administering to a patient having cancer and in need of treatment an anticancer effective amount of a compound of Claim 30.
44. A method for treating rheumatoid arthritis comprising administering to a patient having cancer and in need of treatment an anticancer effective amount of a compound of Claim 30.